WHAT IS CLAIMED IS:

1. A method of prioritizing a plurality of service systems in a wireless communication system comprising:

determining a reference location;

calculating a distance from the reference location to each of the plurality of service systems; and

prioritizing the plurality of service systems based on the distance from the reference location.

- 2. The method of Claim 1, wherein the reference location is determined using a global positioning system.
- 3. The method of Claim 1, wherein the reference location is determined using dead reckoning.
- 4. The method of Claim 1, wherein the reference location is a last known location of a mobile station.
- 5. The method of Claim 1, wherein the calculating step further comprises:

determining a drift term; and

adjusting the reference location based on the drift term.

6. The method of Claim 5, wherein the drift term is determined using the equation:

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$radius_d = (t-t_{last-system}) V_{max}$

- where t is a current time, $t_{last-system}$ is a time that service was last available on a last known system, and V_{max} is a maximum expected velocity that a mobile station would travel during the period without service.
 - 7. The method of Claim 6, wherein the distance is calculated using the equation:

$$d_{sys(n)} = \frac{\sqrt{(latitude_s - latitude_r) + (longitude_s - longitude_r)}}{radius_s + radius_d}.$$

8. A method of prioritizing a plurality of service systems in a wireless communication system comprising:

determining a reference location; and

obtaining a prioritized list of service systems based on the reference location.

- 9. The method of Claim 8, wherein the reference location is determined using a global positioning system.
- 10. The method of Claim 8, wherein the reference location is determined using dead reckoning.

- 11. The method of Claim 1, wherein the prioritized list of service systems based on the reference location is obtained from stored data within a mobile station.
- 12. The method of Claim 11, wherein the data is stored in the system selection database.
- 13. The method of Claim 12, wherein the system selection
 2 database includes a position reference for each of the
 3 plurality of service systems.
 - 14. A mobile station for use in a wireless communication system comprising:
 - a position determination device; and
 - a database of system providers based on position information.
 - 15. The mobile station of Claim 14, wherein the position determination device is a global positioning system.
 - 16. The mobile station of Claim 14, wherein the database is included in the system selection database.
 - 17. The mobile station of Claim 14, wherein the mobile station selects one of the system providers based on the database information.

- 18. A mobile station for use in a wireless communication system comprising:
 - a position determination device;
 - a service detector which determines if service is available at any given position; and

memory locations for storing data regarding service availability for a plurality of locations, wherein the grouping of the memory locations provides a map of a service area showing service availability.

- 19. The mobile station of Claim 18, wherein the position determination device is a global positioning system.
- 20. The mobile station of Claim 18, wherein a grouping of memory locations containing position information can be converted to a formula defining a service area.
- 21. The mobile station of Claim 18, wherein each memory location stores both a latitude and a longitude of a position along with information indicating whether service was available at the position.
- 22. A method of mapping a service system for a wireless communication system comprising:

establishing a reference location;

determining service availability for the reference location; and

storing the information on service availability for the reference location.

- 23. The method of Claim 22, wherein the reference location is established using a global positioning system.
- 24. The method of Claim 22, wherein the reference location is determined using dead reckoning.
 - 25. The method of Claim 22, further comprising:
- collecting data on service information for a plurality of reference locations; and

combining the data to provide a map of a service area showing service availability.

- 26. The method of Claim 25, further comprising converting the combined data into a formula defining a service area.
- 27. The method of Claim 22, wherein the stored
- information includes both a latitude and a longitude of the
- reference location along with information indicating whether
- 4 service was available at the reference location.